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APPLICATION NO.	FILI	NG DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/629,863 07/30/2003		/30/2003	Yu-Chun Peng	0941-0800P	7369	
2292	7590 10/17/2006			EXAMINER		
		OLASCH & BIR	PENDLETON, BRIAN T			
PO BOX 74' FALLS CHU	•	22040-0747	ART UNIT	PAPER NUMBER		
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				DATE MAILED: 10/17/2006		

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)	
		10/629,863	PENG ET AL.	
	Office Action Summary	Examiner	Art Unit	
		Brian T. Pendleton	2615	
Period fo	The MAILING DATE of this communication apport	pears on the cover sheet with the c	orrespondence address	
A SH WHIC - Exte after - If NC - Failu Any	ORTENED STATUTORY PERIOD FOR REPLICATION OF THE MAILING DON'S INC. SIX (6) MONTHS from the mailing date of this communication. Operiod for reply is specified above, the maximum statutory period reply within the set or extended period for reply will, by statute reply received by the Office later than three months after the mailing ed patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be time will apply and will expire SIX (6) MONTHS from a cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).	
Status				
1)⊠ 2a)□ 3)□	Responsive to communication(s) filed on 30 Je This action is <b>FINAL</b> . 2b) This Since this application is in condition for allowar closed in accordance with the practice under E	action is non-final.  nce except for formal matters, pro		
Dispositi	ion of Claims			
5)⊠ 6)⊠ 7)□	Claim(s) <u>1-9</u> is/are pending in the application.  4a) Of the above claim(s) is/are withdraw Claim(s) <u>6-9</u> is/are allowed.  Claim(s) <u>1-5</u> is/are rejected.  Claim(s) is/are objected to.  Claim(s) are subject to restriction and/or			
Applicati	ion Papers			
10)⊠	The specification is objected to by the Examine The drawing(s) filed on 30 July 2003 is/are: a) Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct The oath or declaration is objected to by the Ex	$\boxtimes$ accepted or b) $\square$ objected to be drawing(s) be held in abeyance. See ion is required if the drawing(s) is obj	e 37 CFR 1.85(a). ected to. See 37 CFR 1.121(d).	
Priority ι	ınder 35 U.S.C. § 119			
12)⊠ a)[	Acknowledgment is made of a claim for foreign  All b) Some * c) None of:  1. Certified copies of the priority documents 2. Certified copies of the priority documents 3. Copies of the certified copies of the priority documents application from the International Bureau See the attached detailed Office action for a list	s have been received. s have been received in Application its documents have been received in Price (PCT Rule 17.2(a)).	on No d in this National Stage	
2) 🔲 Notic	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948)	4) Interview Summary Paper No(s)/Mail Da	(PTO-413) te	
3) 🔲 Inforr	nation Disclosure Statement(s) (PTO/SB/08) r No(s)/Mail Date	5) Notice of Informal Pa		

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#### **DETAILED ACTION**

## Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

Claim 1 is rejected under 35 U.S.C. 102(e) as being anticipated by Scarlett et al, US

Patent 6,856,046. Scarlett discloses a plug detection device comprising jack J1, first pin 14,
second pin 10, and discrimination circuit 32. The discrimination circuit 32 determines the type
of device plugged into the jack J1 from among a stereo headphone 26 with two speakers,
telephone headset 28 that has two speakers and a microphone, and phone headset 30 with a
single speaker and a microphone. As disclosed in column 4 line 35 – column 6 line 20, the
resistance between pins 14 and 10 and a common contact 22 determine the type of device
plugged in. The first and second detection circuits are comparators CMP1 and CMP2 (see figure
3) which are electrically coupled to the first and second pins and compare voltages V6 and V7 to
output first and second logic potentials CMP1OUT and CMP2OUT which detect the presence of
a microphone function. Claim 1 is rejected.

#### Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person

having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the

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manner in which the invention was made.

Claims 2-4 are rejected under 35 U.S.C. 103(a) as being unpatentable over Scarlett et al. Scarlett et al discloses that logic potential CMP3OUT is low when no plug is connected to the earphone jack but does not disclose that the first and second potentials CMP1OUT and COMP2OUT are low when no plug is connected to the earphone jack. However, it would have been obvious to one or ordinary skill that the circuitry in Scarlett et al could be modified to provide CMP1OUT and CMP2OUT with low potentials when no plug is connected as that configuration provided no unexpected results over the present configuration. Regarding claims 3 and 4, the same reasoning as claim 2 applies – the choice of the values of the logic potentials for a particular device being plugged in was one of obvious design to an artisan.

Claim 5 is rejected under 35 U.S.C. 103(a) as being unpatentable over Scarlett et al in view of Lim, US Patent 6,922,572. Scarlett et al do not disclose that the jack has a third pin wherein the third pin is coupled to the grounded conductive ring when the plug is connected to the earphone jack. Lim discloses a 4 pole earphone which has a jack having a third pin 1 which is coupled to the grounded conductive ring of the plug. It would have been obvious to one of ordinary skill in the art at the time of invention to modify Scarlett to have a third pin in jack J1 for the purpose of accommodating a four pole earphone.

### Allowable Subject Matter

Claims 6-9 are allowed.

The following is a statement of reasons for the indication of allowable subject matter:

Scarlett does not disclose the a first capacitor and second capacitor specifically arranged with the

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six resistors and switched, as claimed in independent claim 6. As a result, claim 6 and its dependents, claims 7-9 are allowed.

#### Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Aotake et al, US Patent 6,819,942; Mizukami et al, US Patent 6,069,960; Kim et al, US Patent 6,397,087.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Brian T. Pendleton whose telephone number is (571) 272-7527. The examiner can normally be reached on M-F 7-4:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Vivian Chin can be reached on (571) 272-7848. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

btp

Brian T. Pendleton Primary Examiner Art Unit 2615

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